

WIX1002 Fundamentals of Programming
Tutorial 3 Flow of Control (Selection)

1. Write statements for each of the following
 - a. Determine whether $3x8=27$.
 - b. Determine whether an input integer is an odd number or even number.
 - c. Determine whether a character is a capital letter.
 - d. Display two strings in alphabetical order ignoring their case.
 - e. A switch statement that display Sunday, Monday, ..., Saturday if the input is 0, 1, ..., 6.

2. Correct the error for the following statements.
 - a.

```
if (num1 = num2)
    System.out.println("Number 1 is equal to number 2.");
```
 - b.

```
if (x > y > z)
    System.out.println("x is the largest number");
```
 - c.

```
String s1, s2;
if (s1==s2)
    System.out.println("They are equal strings.");
else (s1!=s2)
    System.out.println("They are not equal strings.");
```
 - d.

```
if x>0 or y>0;
    System.out.println("Either x or y is positive");
```

3. Write the output for the following statements when $x=9$ and $y=10$
 - a.

```
if (x < 10)
if (y > 10)
System.out.println("*****");
else
System.out.println("#####");
System.out.println("$$$$$");
```
 - b.

```
if (x < 10) {
if (y < 10)
System.out.println("*****");
else{
System.out.println("#####");
```

```
System.out.println("$$$$$");
}}
```

c.

```
if (x < 10) {
if (y < 10)
System.out.println("*****");
System.out.println("#####");
}
else {
System.out.println("$$$$$");
}
```

d.

```
if (x > 10) {
if (y > 10) {
System.out.println("*****");
System.out.println("#####"); }
else
System.out.println("$$$$$");
}
```

4. Write the java statements that used the if statement to find the biggest number among three given integers.
5. Write the java statements that determine whether the Leap year. A Leap year is divisible by 4 but not by 100. However, a Leap year is also divisible by 400.